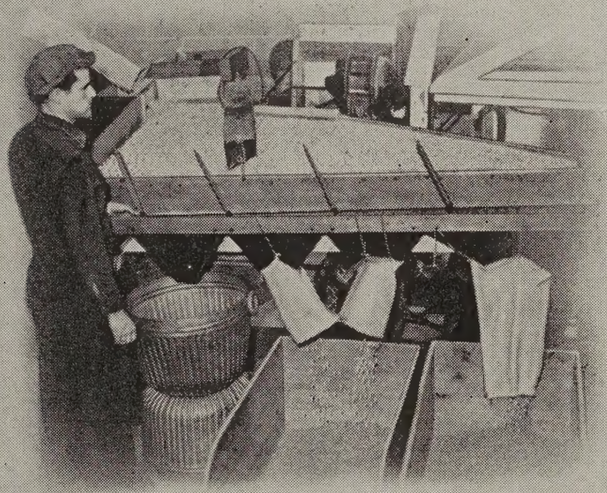
PIONEER

Quality Hybrid Seed Corn

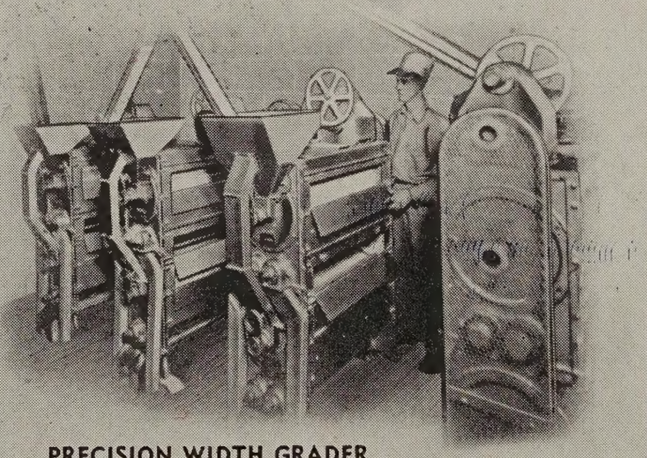
PIONEER

PLANT MANAGER INSTRUCTING SORTER

CHECKING CORN PLANTER



GRAVITY CLEANER AND GRADER



PRECISION WIDTH GRADER

TREATING AND SACKING

MACHINE REMOVING HUSKS

Carefully Prepared

HAS THE VIGOR TO GROW IN A COLD WET SPRING

Because every possible care is taken in producing Pioneer seed corn—from the time the inbreds are crossed for parent corn production . . . through the planting of the final cross seed fields in the spring . . . sorting, drying, shelling and grading in the fall . . . and storage in the winter . . . Pioneer has the vigor to grow in a cold, wet spring.

Sorting of the corn as it comes from the seed fields is very important. Employees are carefully trained to recognize at a glance, those ears and kernels that should be discarded.

Many different types of machinery are used in Pioneer plants—unloading equipment . . . elevators . . . conveyors . . . dryers . . . shellers . . . graders . . . treaters . . . scales . . . trucks, etc.

It's the painstaking care given to Pioneer—from the crossing of the inbred parents . . . to the final treating . . sacking . . and storing, that gives Pioneer the "VIGOR to GROW . . in a Cold, Wet Spring."

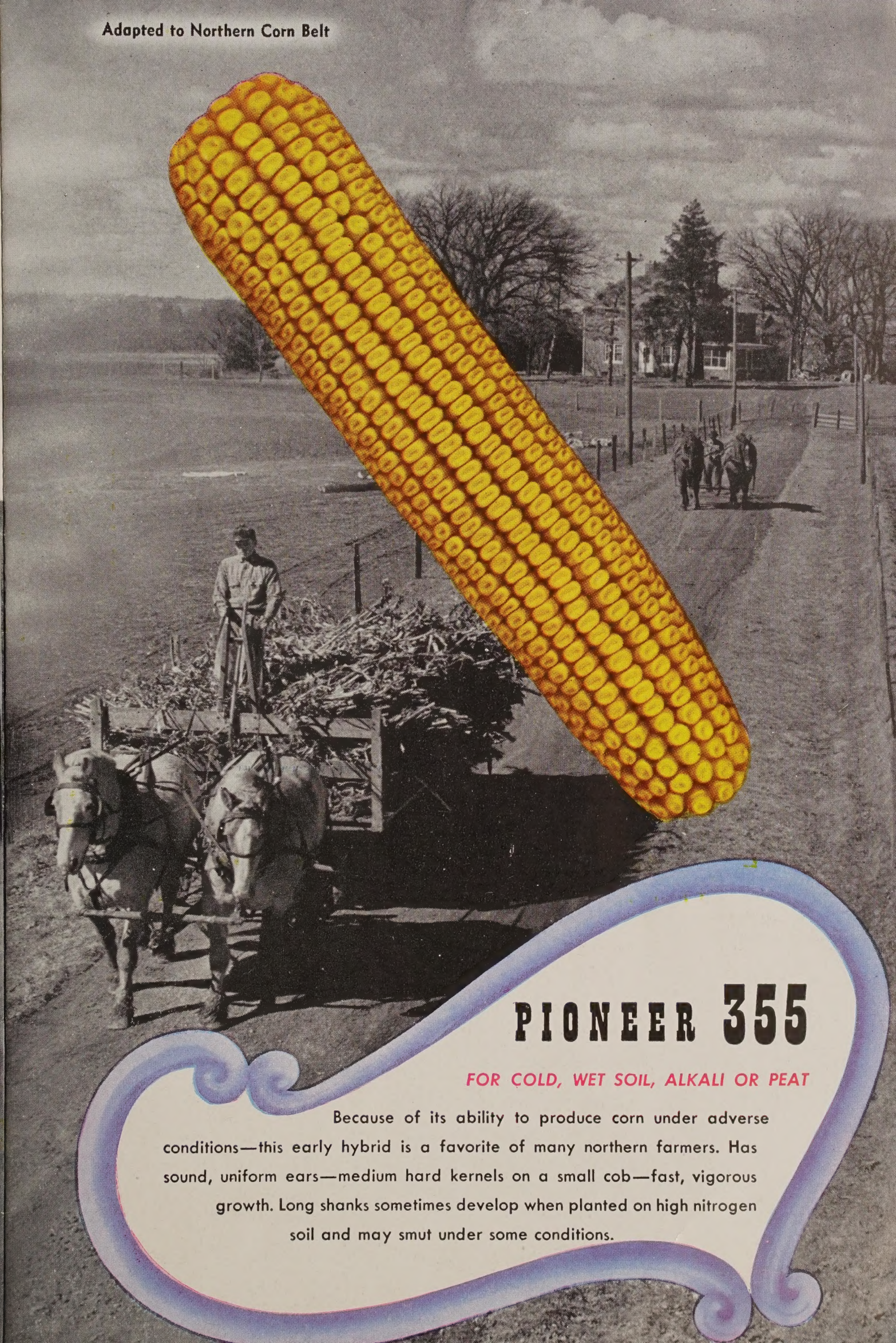
PIONEER 359

EARLY MATURITY, VERY STIFF STALKS

Produces good yields of early maturing corn. Medium size ears—deep, soft starch kernels—small, quick drying cobs—short, very stiff stalks—dressy, dark green foliage—resistant to lodging, ear dropping, smut and drought. Picks well by hand or machine.

Adapted to Northern Corn Belt

Adapted to Northern Corn Belt



PIONEER 355

FOR COLD, WET SOIL, ALKALI OR PEAT

Because of its ability to produce corn under adverse conditions—this early hybrid is a favorite of many northern farmers. Has sound, uniform ears—medium hard kernels on a small cob—fast, vigorous growth. Long shanks sometimes develop when planted on high nitrogen soil and may smut under some conditions.

Adapted to Northern Corn Belt

PIONEER 379

LEADING EARLY PIONEER HYBRID

An outstanding hybrid. Excellent yielding ability. Fully as early as 355. Does well on rich or thin ground. Medium ear height—kernel texture not too soft—not too hard. Excellent roots and stalks. Especially well adapted to machine pickers. Husks easily by hand.

GOOD ON RICH OR THIN GROUND

Big yield—top quality feeding corn with heavy cylindrical ears—deep, medium soft starch kernels—with some variation in type. 358-A is similar in maturity to 373. Resists stalk breaking. Does well on rich or thin ground. Fair for strength of roots.

PIONEER
358-A

Adapted to Northern Corn Belt

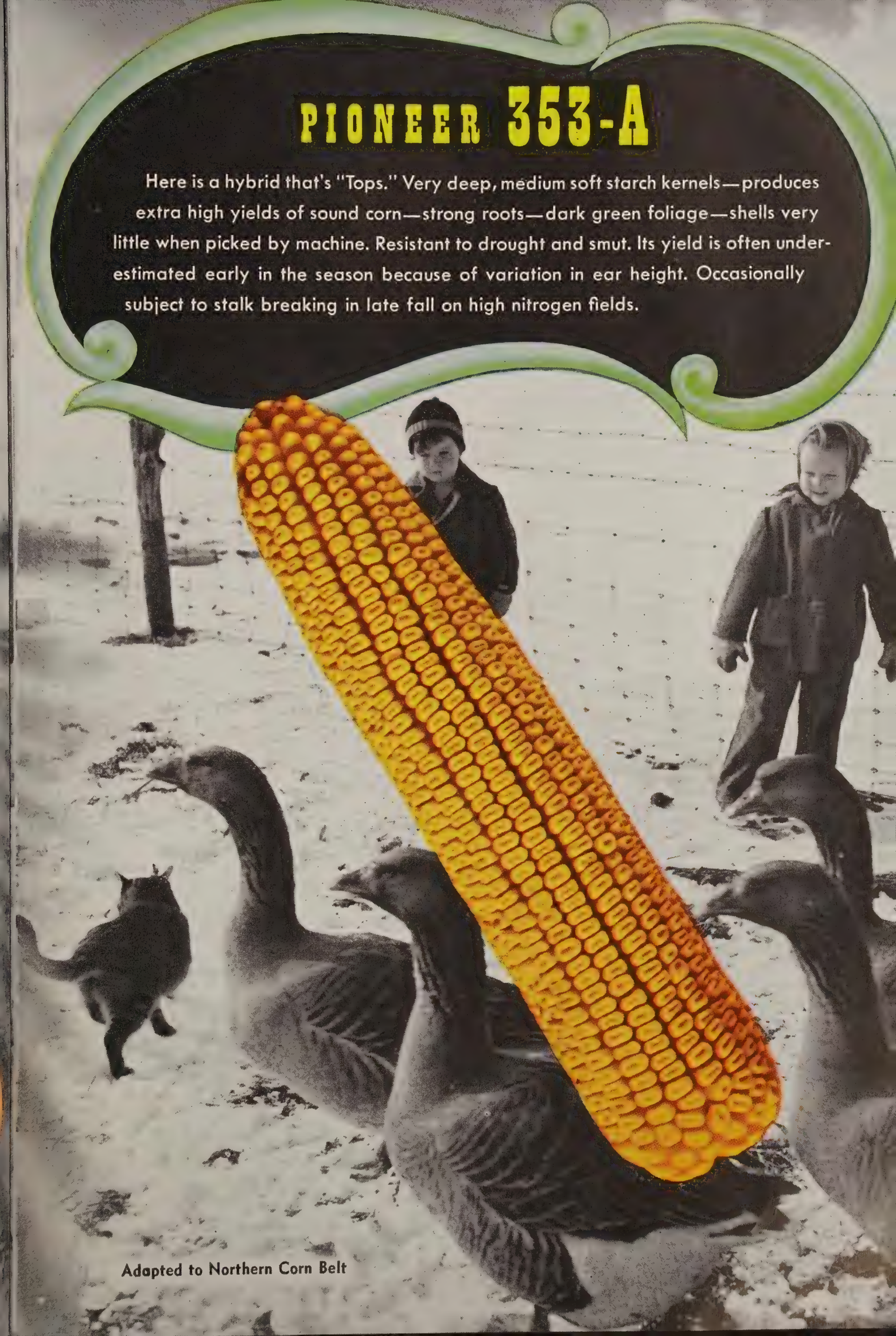
PIONEER 373

LONG EARS—EASY TO PICK

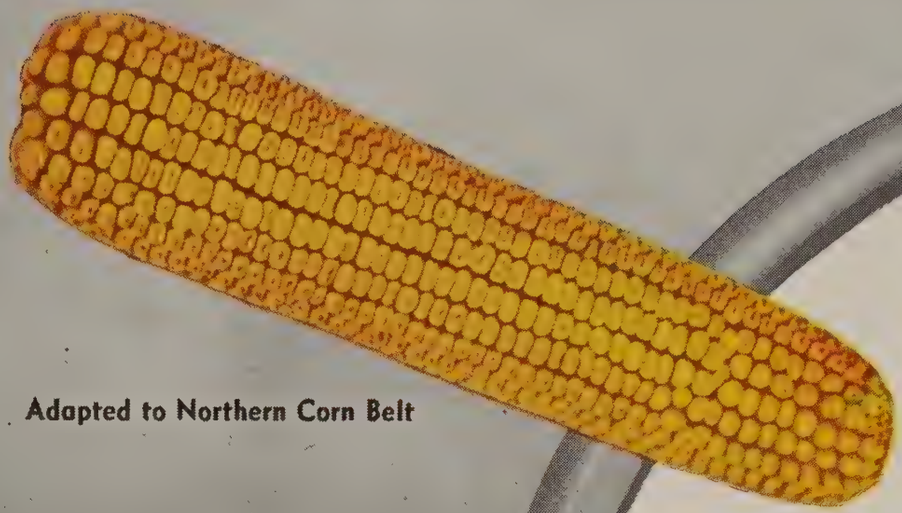
It's those long ears—each packed with deep sound kernels—of medium texture—on a small, fast drying cob that makes 373 so popular. Produces heavy yield—with splendid field appearance—and is resistant to ear dropping. Subject to stalk breaking in late fall when planted on high nitrogen soil. Husks easily by hand and picks quite well with a machine, even though some stalks are broken over.

PIONEER 353-A

Here is a hybrid that's "Tops." Very deep, medium soft starch kernels—produces extra high yields of sound corn—strong roots—dark green foliage—shells very little when picked by machine. Resistant to drought and smut. Its yield is often underestimated early in the season because of variation in ear height. Occasionally subject to stalk breaking in late fall on high nitrogen fields.



Adapted to Northern Corn Belt



Adapted to Northern Corn Belt

PIONEER 326

STIFF STALKED NEW HYBRID

A new hybrid—little earlier than 322—soft kernel texture—medium low ear height—excellent resistance to stalk and root lodging—shells very little when picked by machine.

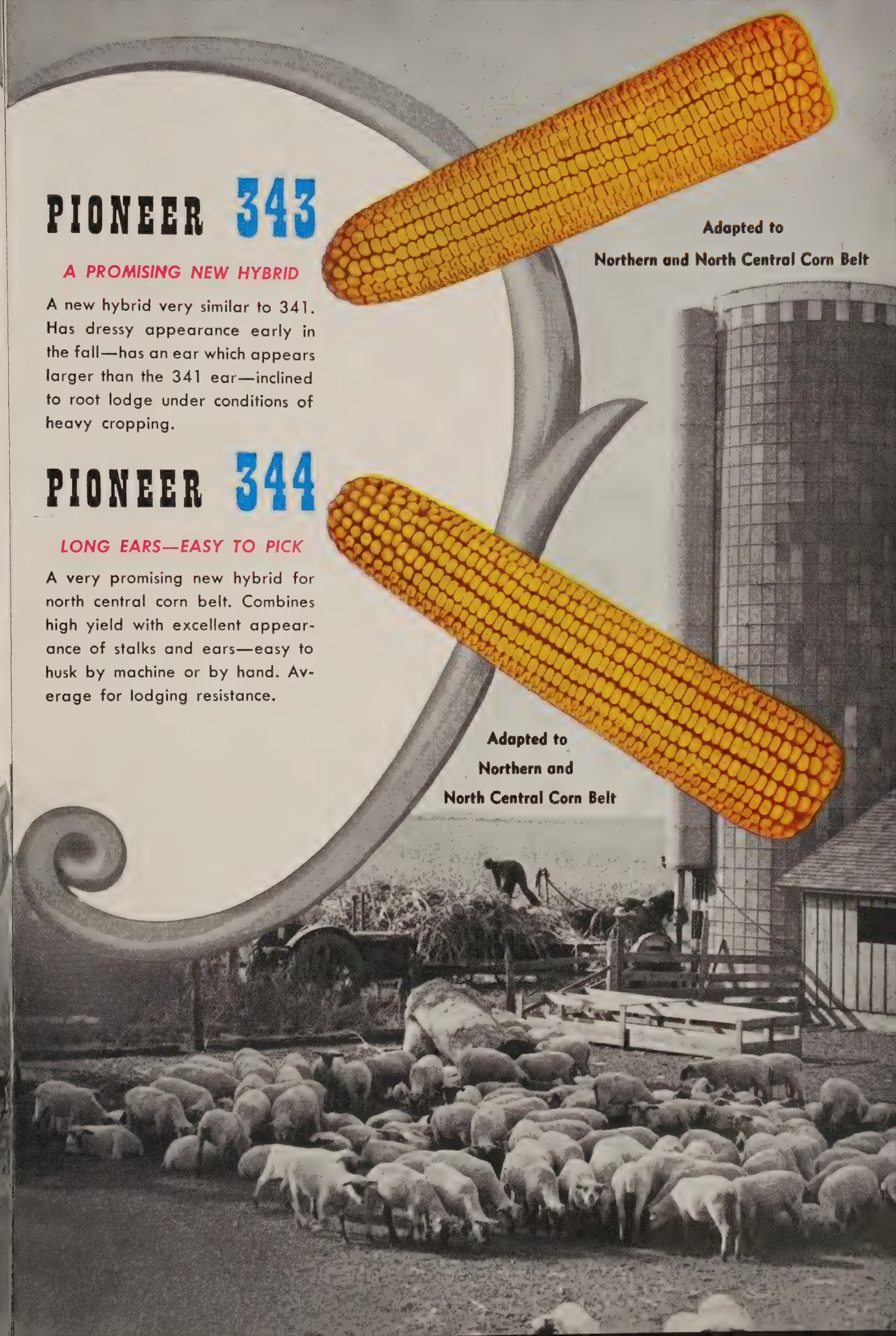
PIONEER 326 WILL NOT BE AVAILABLE IN THE 1946-47 SEASON

Adapted to Northern Corn Belt

PIONEER 353

THICK—CHUNKY EARS

Chunky, cylindrical ears with very deep, soft starch kernels. Usually stands up better than other hybrids in the same field. Not well adapted to hand picking.



PIONEER 343

A PROMISING NEW HYBRID

A new hybrid very similar to 341. Has dressy appearance early in the fall—has an ear which appears larger than the 341 ear—inclined to root lodge under conditions of heavy cropping.

Adapted to
Northern and North Central Corn Belt

PIONEER 344

LONG EARS—EASY TO PICK

A very promising new hybrid for north central corn belt. Combines high yield with excellent appearance of stalks and ears—easy to husk by machine or by hand. Average for lodging resistance.

Adapted to
Northern and
North Central Corn Belt

Summary of Characteristics of

PIONEER HYBRIDS

PIONEER	359	355	379	358-A	373	353-A	353	326	322	344
STRENGTH OF ROOTS	VERY STRONG	STRONG	VERY STRONG	FAIR	STRONG	VERY STRONG	VERY STRONG	VERY STRONG	VERY STRONG	FAIR
STIFFNESS OF STALKS	VERY STIFF	VERY STIFF	VERY STIFF	VERY STIFF	FAIR	STIFF	VERY STIFF	VERY STIFF	FAIR	STIFF
EAR DROPPING RESISTANCE	EXCELL'T	GOOD	EXCELL'T	GOOD	GOOD	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T
ADAPTATION TO HAND PICKING	EXCELL'T	GOOD	EXCELL'T	EXCELL'T	GOOD	GOOD	FAIR	GOOD	GOOD	EXCELL'T
CLEANNESS OF HUSKING WITH MACHINE PICKER	VERY CLEAN	CLEAN	VERY CLEAN	CLEAN	VERY CLEAN	CLEAN	FAIR	CLEAN	VERY CLEAN	CLEAN
SHELLING RESISTANCE WHEN PICKED WITH MACHINE	EXCELL'T	GOOD	EXCELL'T	GOOD	GOOD	EXCELL'T	EXCELL'T	EXCELL'T	FAIR	FAIR
LENGTH OF SHANK	MEDIUM	LONG	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	SHORT	MEDIUM
EAR HEIGHT	LOW	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	HIGH	MEDIUM
LENGTH OF EARS	SHORT	LONG	MEDIUM	MEDIUM	LONG	MEDIUM	SHORT	MEDIUM	MEDIUM	LONG
HARDNESS OF KERNEL STARCH	SOFT	MEDIUM HARD	MEDIUM SOFT	MEDIUM SOFT	MEDIUM SOFT	MEDIUM SOFT	MEDIUM SOFT	SOFT	MEDIUM SOFT	MEDIUM SOFT

The characteristics of the hybrids listed are based on comparisons with the average Pioneer hybrid—not on comparisons with the open-pollinated corn or competitive hybrids. For instance, where a hybrid rates "Fair" for "Stiffness of Stalk" in these tables, it would actually rate "Very Stiff" if compared under open-pollinated standards.

PIONEER	341	343	330	340	331	339	333	334	336	300	304
STRENGTH OF ROOTS	FAIR	FAIR	VERY STRONG	STRONG	STRONG	VERY STRONG	VERY STRONG	FAIR	STRONG	FAIR	STRONG
STIFFNESS OF STALKS	VERY STIFF	VERY STIFF	VERY STIFF	VERY STIFF	STIFF	STIFF	VERY STIFF	STIFF	STIFF	STIFF	VERY STIFF
EAR DROPPING RESISTANCE	EXCELL'T	EXCELL'T	GOOD	EXCELL'T	GOOD	GOOD	EXCELL'T	GOOD	GOOD	GOOD	EXCELL'T
ADAPTATION TO HAND PICKING	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	EXCELL'T	FAIR	GOOD	EXCELL'T	GOOD	FAIR
CLEANNESS OF HUSKING WITH MACHINE PICKER	CLEAN	CLEAN	VERY CLEAN	CLEAN	CLEAN	CLEAN	CLEAN	CLEAN	CLEAN	FAIR	FAIR
SHELLING RESISTANCE WHEN PICKED WITH MACHINE	EXCELL'T	EXCELL'T	EXCELL'T	GOOD	EXCELL'T	FAIR	FAIR	EXCELL'T	EXCELL'T	GOOD	FAIR
LENGTH OF SHANK	MEDIUM	MEDIUM	SHORT	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	SHORT
EAR HEIGHT	LOW	LOW	LOW	MEDIUM	HIGH	MEDIUM	MEDIUM	MEDIUM	MEDIUM	HIGH	MEDIUM
LENGTH OF EARS	LONG	LONG	MEDIUM	LONG	LONG	LONG	MEDIUM	LONG	LONG	MEDIUM	LONG
HARDNESS OF KERNEL STARCH	SOFT	SOFT	SOFT	MEDIUM SOFT	SOFT	SOFT	MEDIUM HARD	MEDIUM SOFT	MEDIUM SOFT	SOFT	MEDIUM SOFT

Maturity of Hybrids

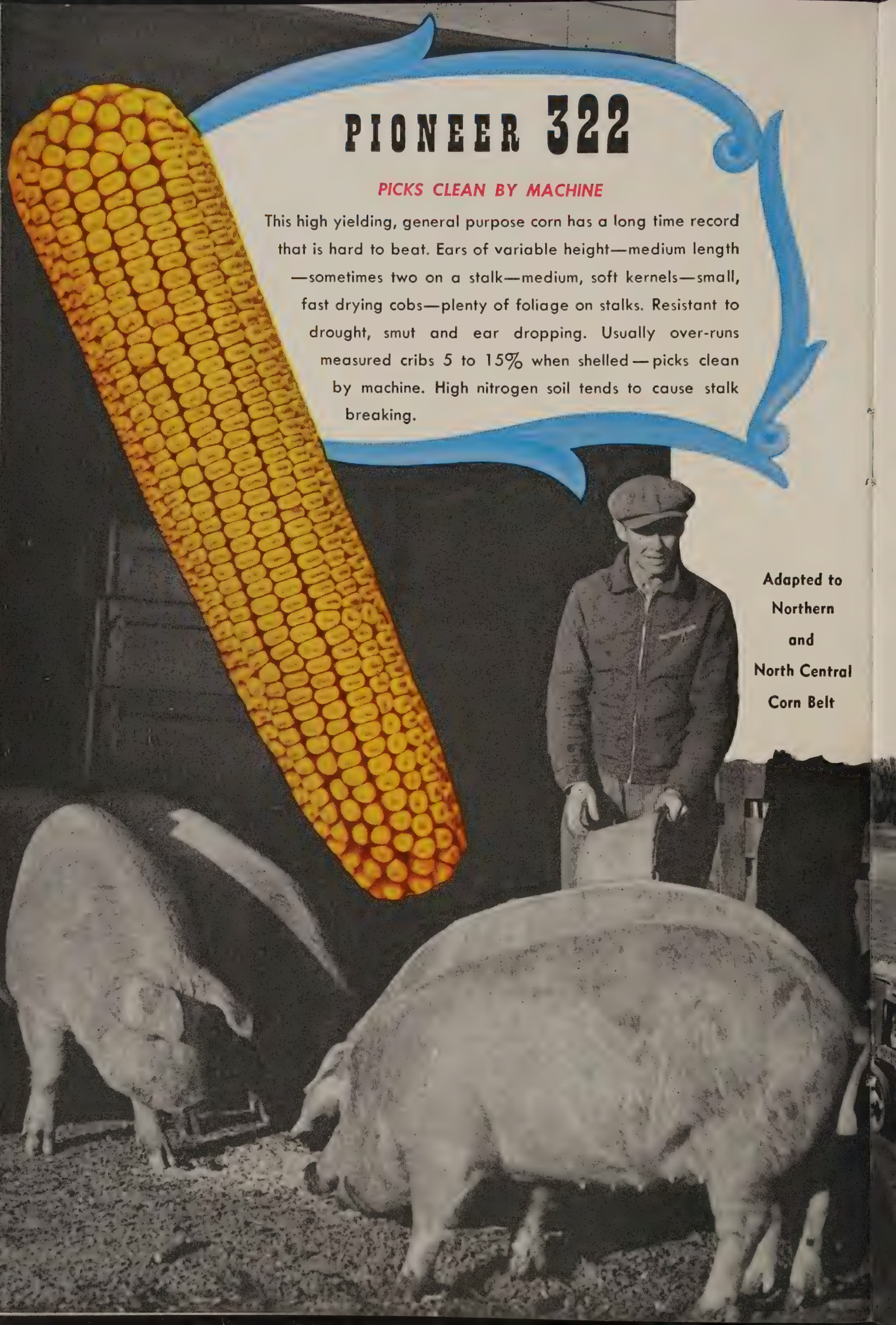
South Central and Southern Minnesota
Northern and Central South Dakota
359 355 379
358-A

Southern Minnesota and Northern Iowa
Central and Southern South Dakota
373 353-A 353
326

No. Central and So. Central Iowa
South Eastern South Dakota
322 344 341
343 330 340 331

Central and Southern Iowa
339 333 334
336 300 304

PIONEER Hybrids are adapted to corn belt areas as shown above.



PIONEER 322

PICKS CLEAN BY MACHINE

This high yielding, general purpose corn has a long time record that is hard to beat. Ears of variable height—medium length—sometimes two on a stalk—medium, soft kernels—small, fast drying cobs—plenty of foliage on stalks. Resistant to drought, smut and ear dropping. Usually over-runs measured cribs 5 to 15% when shelled—picks clean by machine. High nitrogen soil tends to cause stalk breaking.

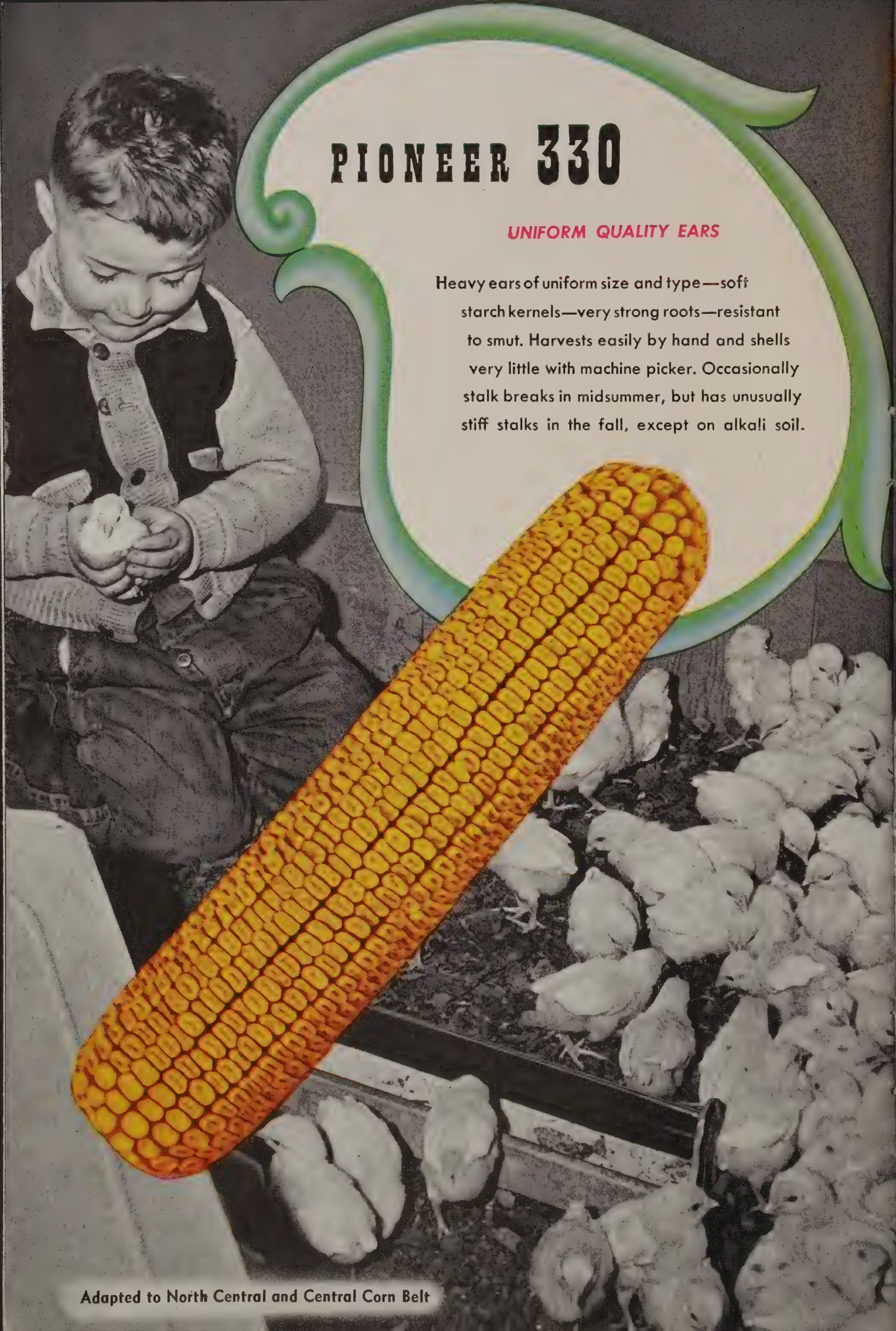
Adapted to Northern and North Central Corn Belt


PIONEER
341
LARGE EARS—
HEAVY YIELD
The many good features of 341 account for its rapid increase in popularity among northern cash grain farmers and livestock feeders. Heavy yield—high shelling percentage—large, uniform cylindrical ears—medium dent kernels—very easy to husk by hand—picks clean with a machine. Resistant to ear dropping.
Adapted to
Northern and
North Central Corn Belt

PIONEER 330

UNIFORM QUALITY EARS

Heavy ears of uniform size and type—soft starch kernels—very strong roots—resistant to smut. Harvests easily by hand and shells very little with machine picker. Occasionally stalk breaks in midsummer, but has unusually stiff stalks in the fall, except on alkali soil.



Adapted to North Central and Central Corn Belt

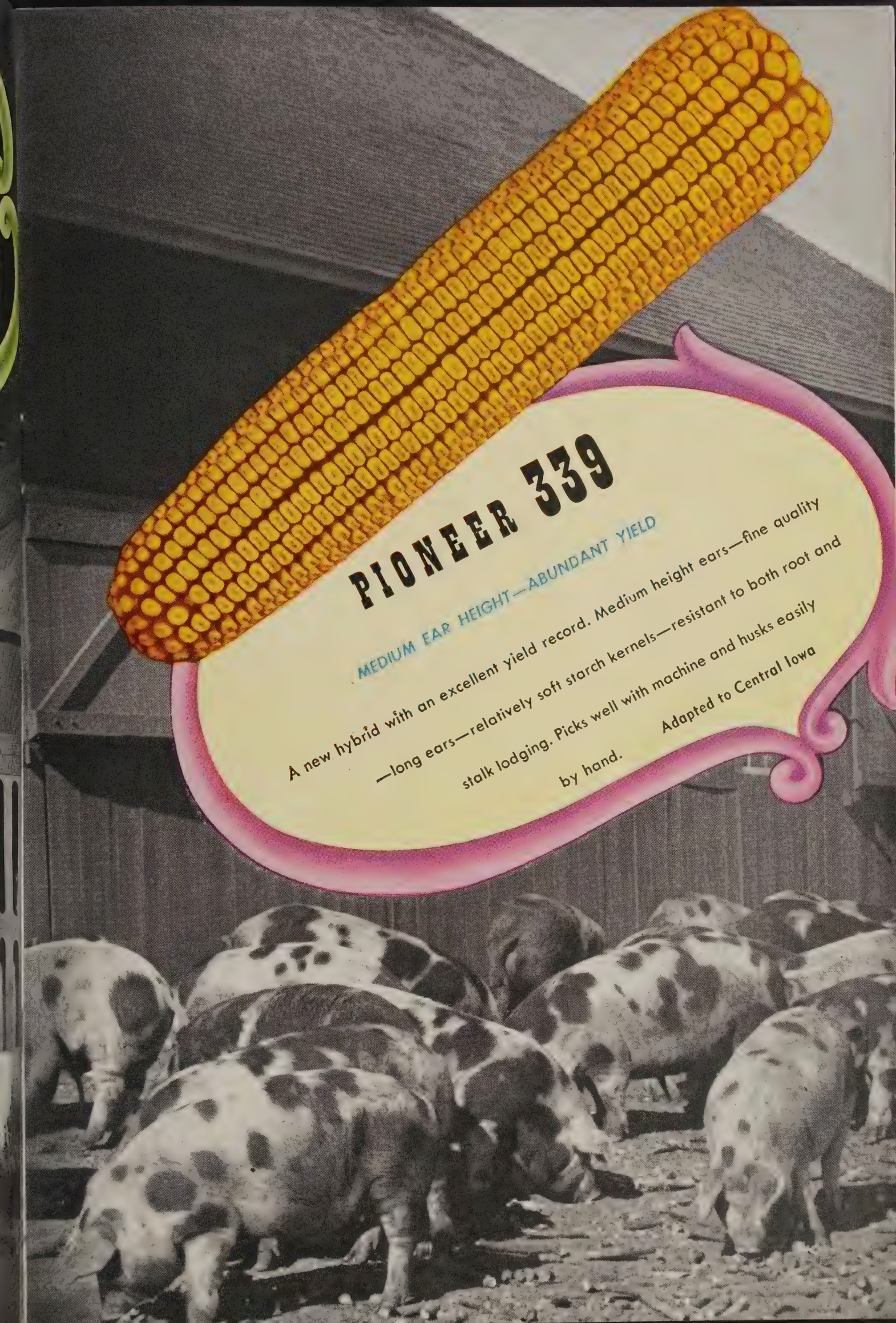
Adapted to North Central and Central Corn Belt

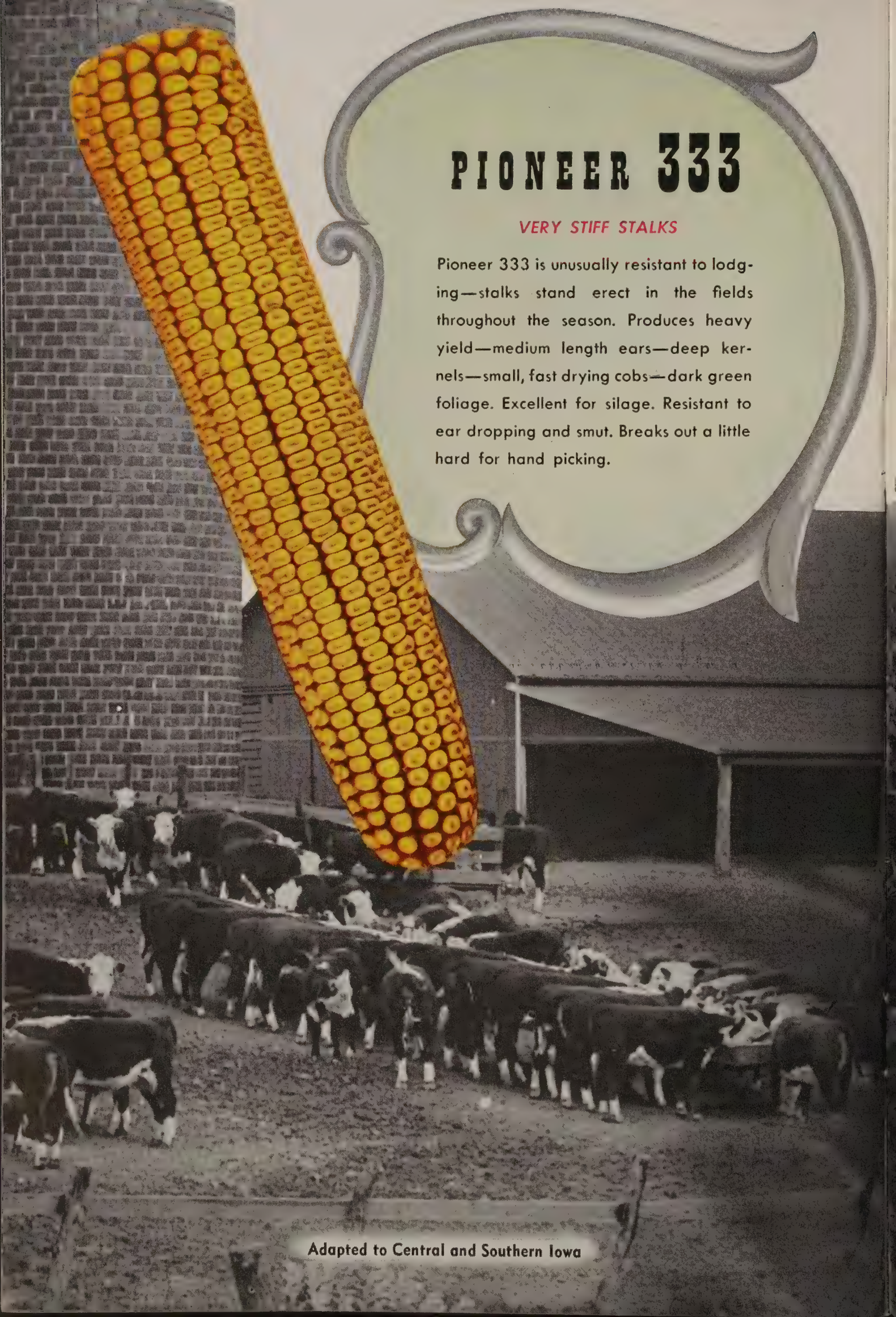
PIONEER 340

"TOPS" IN EVERY WAY

Probably comes nearer than any other hybrid to combining all of the good qualities needed in a corn. Does well on both rich and thin soil. Very stiff stalks—very strong roots—resists midsummer stalk breaking quite well—large, good quality ears—medium soft starch kernels—dark green foliage. Adapted to both hand and machine picking.


PIONEER 331
EAR TYPE SIMILAR TO 330
A high yielding hybrid with an ear-type and maturity similar to 330, but higher eared — more foliage — longer eared. Deep, medium soft kernels — able to adapt itself to different soil types—resistant to smut and drought. Strength of roots only fair under adverse conditions. Has very stiff stalks in the fall. Husks easily by hand and picks well with machine.
Adapted to Central Iowa


PIONEER 339
MEDIUM EAR HEIGHT—ABUNDANT YIELD
A new hybrid with an excellent yield record. Medium height ears—fine quality
—long ears—relatively soft starch kernels—resistant to both root and
stalk lodging. Picks well with machine and husks easily
by hand. Adapted to Central Iowa



PIONEER 333

VERY STIFF STALKS

Pioneer 333 is unusually resistant to lodging—stalks stand erect in the fields throughout the season. Produces heavy yield—medium length ears—deep kernels—small, fast drying cobs—dark green foliage. Excellent for silage. Resistant to ear dropping and smut. Breaks out a little hard for hand picking.

Adapted to Central and Southern Iowa

PIONEER 334

SOFT STARCH KERNELS

A large, single ear on each stalk. In addition to the high yield of these big ears—the deep kernels have a medium texture and are of excellent quality. Does well on a variety of soil types—does particularly well on light or sandy soil. Husks satisfactorily by hand and by machine. Roots are a little weaker than average.

Adapted to

Central and Southern Iowa

PIONEER 336

LARGE EARS—HIGH YIELDS

An old favorite in southern Iowa, that performs well on all soil types. Its deep, medium soft starch kernels are excellent for feeding both cattle and hogs. Has dark green, medium height stalks, usually with only one big ear—stiff stalks, that stand throughout the season—very well adapted for both hand and mechanical picking.

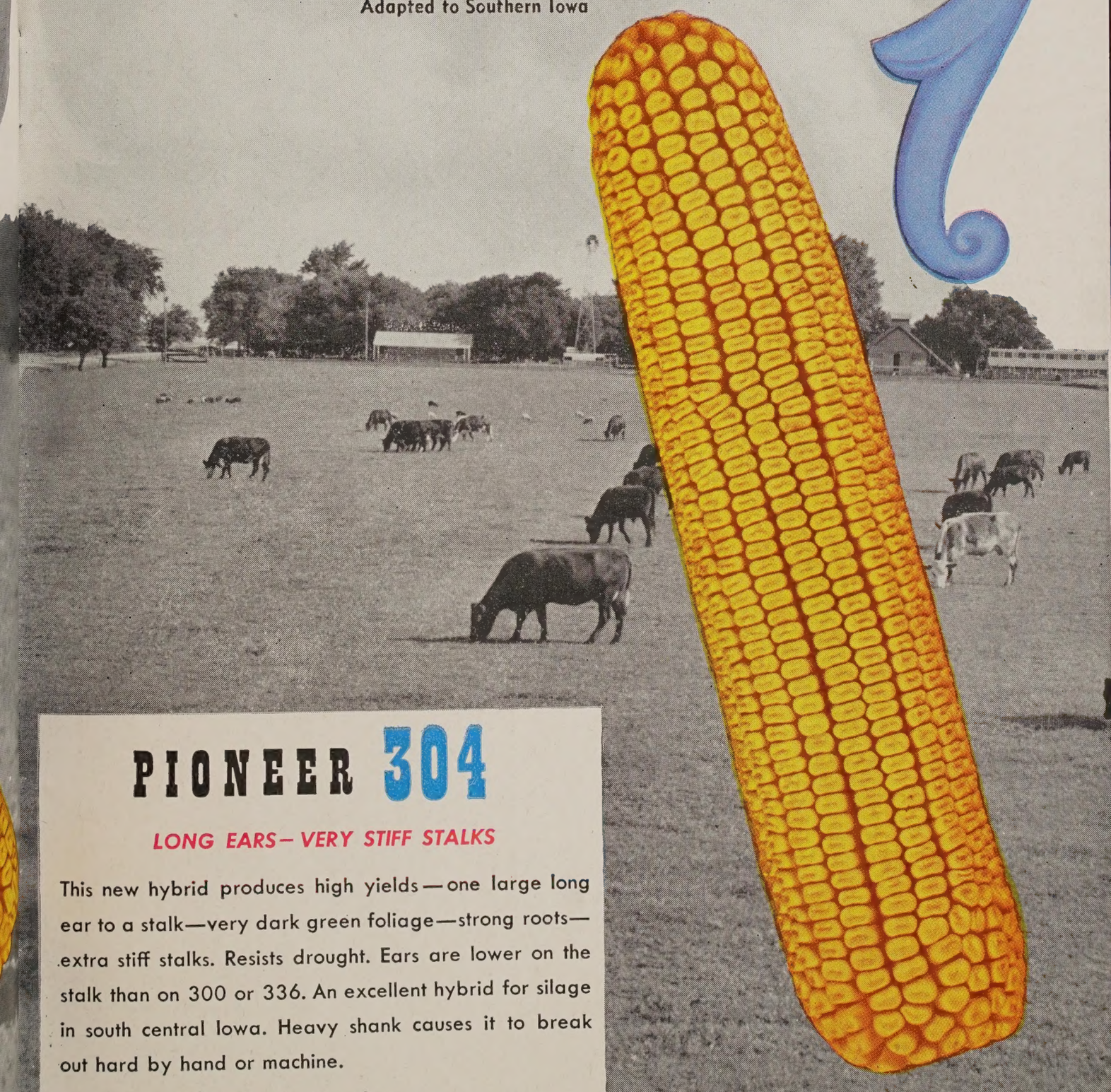
Adapted to Southern Iowa

PIONEER 300

YIELDS ABUNDANTLY

A proven hybrid for southern Iowa. Dependable high yield—big, rough dent, straight rowed "show type" ears —uniformly large from butt to tip—soft, starch, wide and deep kernels—stiff stalks and dark green foliage. Root lodges in some seasons. Resistant to smut and drought. On fertile soil it grows tall and ears are fairly high.

Adapted to Southern Iowa



PIONEER 304

LONG EARS—VERY STIFF STALKS

This new hybrid produces high yields—one large long ear to a stalk—very dark green foliage—strong roots—extra stiff stalks. Resists drought. Ears are lower on the stalk than on 300 or 336. An excellent hybrid for silage in south central Iowa. Heavy shank causes it to break out hard by hand or machine.

Adapted to Southern Iowa

PIONEER Performance Ratings

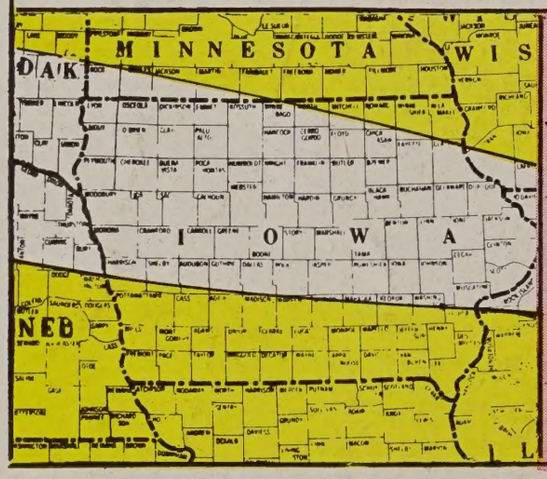
BASED ON AVERAGE RESULTS FROM PIONEER YIELD TESTS

Ratings shown below under each of the 3 maturity belts are based on averages of several years of testing in Pioneer hand planted, replicated test fields. A number of fields are planted annually in each maturity belt and results averaged.

NORTHERN CORN BELT

Pioneer Number	Average Yield Per Acre	Average Moisture Oct. 15	Root Lodging Resistance Grade—The Higher the Better	Average Number Broken Stalks Per 100 Stalks	Average Number Dropped Ears Per 100 Stalks	Average Ear Height
359	69 bu.	16.6%	85	2	.2	40 in.
355	69	16.9	75	4	.8	46
379	70	16.9	80	3	.4	46
358A	72	17.7	70	3	.4	46
373	74	17.9	75	10	.5	48
353A	74	19.0	80	6	.7	54
353	74	19.0	75	4	.3	52
326	75	20.6	85	4	.3	50
322	76	20.8	85	9	.5	56

NORTHERN AND NORTH CENTRAL CORN BELT



Pioneer Number	Average Yield Per Acre	Average Moisture Oct. 15	Root Lodging Resistance Grade—The Higher the Better	Average Number Broken Stalks Per 100 Stalks	Average Number Dropped Ears Per 100 Stalks	Average Ear Height
353A	70 bu.	15.8%	76	5	.3	51 in.
353	70	15.8	77	3	.2	49
326	72	16.4	77	2	.3	47
322	72	16.6	77	11	.4	53
343	74	16.8	75	4	.3	44
344	74	16.8	75	6	.4	45
341	74	16.9	75	5	.3	44
330	70	17.4	88	3	.7	47
340	74	17.4	80	4	.2	49

CENTRAL AND SOUTHERN IOWA CORN BELT

Pioneer Number	Average Yield Per Acre	Average Moisture Oct. 15	Root Lodging Resistance Grade—The Higher the Better	Average Number Broken Stalks Per 100 Stalks	Average Number Dropped Ears Per 100 Stalks	Average Ear Height
330	70 bu.	15.2%	88	1	1.4	43 in.
340	72	15.2	84	1	.7	45
331	72	15.5	84	2	1.2	50
339	74	15.7	80	3	1.0	48
333	74	16.0	88	2	.7	50
334	75	16.3	78	4	1.2	50
336	75	16.5	84	3	1.2	53
300	76	17.0	76	3	.8	56
304	78	17.5	85	3	.5	50

PIONEER Hi-Bred Corn Company
DES MOINES, IOWA